(12) UK Patent Application (19) GB (11) 2 252 079 (13) A

(43) Date of printing by UK Office 29.07.1992

(21) Application No 9202618.6

(22) Date of filing 14.08.1990

(30) Priority data
(31) 8918637.3 (32) 15.08.1989 (33) GB

(86) International application data
PCT/GB90/01286 En 14.08.1990

(87) International publication data
WO91/02648 En 07.03.1991

(71) Applicant
Chelsea Artisans Plc

(Incorporated in the United Kingdom)

1 Surrey Street, London, WC2R 2PS, United Kingdom

(72) Inventor
Roger John Leach

(74) Agent and/or Address for Service
Graham Coles & Co
24 Seeleys Road, Beaconsfield, Bucks, HP9 1SZ, United Kingdom

(51) INT CL[5]
B32B 17/10, B05D 1/00 3/02, C03C 27/12, C08J 3/24

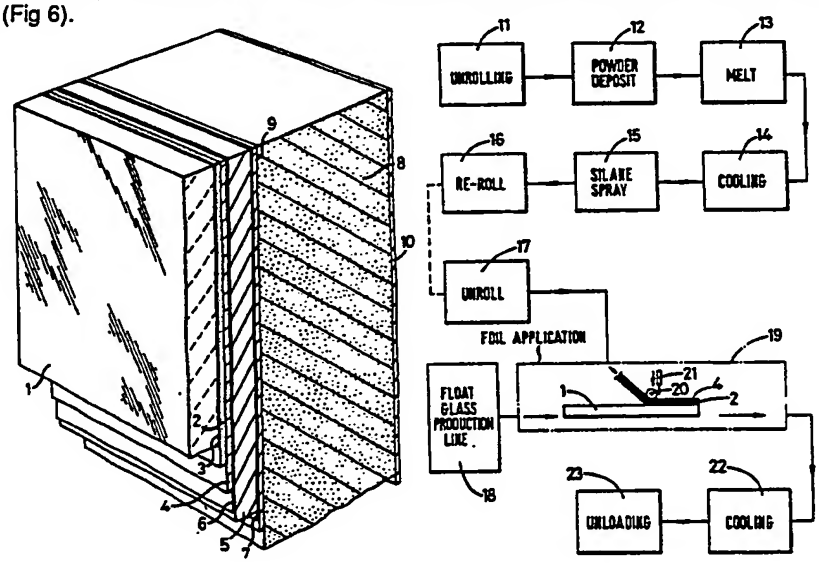
(52) UK CL (Edition K)
B5N N0712 N1504 N1520 N1706 N1710 N175 N180 N181 N182 N195 N196 N198 N199 N20Y N200 N207 N21Y N210 N211 N223 N224 N225 N226 N23X N230 N232 N238 N247 N248 N256 N282 N284 N3112 N389 N401 N418 N42Y N46X N478 N501 N502 N507 N509 N519 N52X N55X N564 N565 N569 N572 N588 N617 N625 N648 N650 N658 N66Y N661 N662 N670 N671 N680 N70X N708 N709 N76X
U1S S1404 S1700 S1714 S1715 S3037 S3042 S3071

(56) Documents cited by ISA
GB 2207089 A GB 0906475 A BE 000663154 A
FR 002134284 A

(58) Field of search by ISA
INT CL[5] B05D, B32B, C03C, C08J, C08L

(54) Manufacture of articles that include thermosetting powder coatings

(57) In manufacture of a glass architectural panel (Fig 1) and aluminium foil (4) is bonded to a glass sheet (1) via a layer (2) of thermosetting polyester powder coating material. The powder is deposited (12) on the foil as the foil unrolls (11) and is melted (13) to provide a fused layer (2) which is then cooled (14) to solidify the layer and arrest progress of curing. The solidified layer is sprayed (15) with a silane adhesion promoter, before being heated momentarily to enable the foil with its adhering and solidified, by uncured, layer, to be rolled up for storage (16). The rolled foil is transferred nearer (17) to a float-glass production line (18), where, after being heated to allow it to be unrolled, it is fed onto a hot glass sheet (1) emerging from the line (18). The fused layer melts as it is brought down with the backing foil to contact the glass sheet (1) and fulfil the cure of the powder material so as to establish the bond. Instead of a single foil, several may be provided overlapping one another (Fig 3). Decorative effects can be obtained using different pigmentations of powder and partial metalization of the glass (Fig 4). The technique of interrupting the cure is applicable to provision of a glass window (Fig 5) and a glass laminate (Fig 6).



GB 2 252 079 A